

ACCESSION NR: AT4040744

orbits. The satellites rapidly abandon the sphere of influence of Jupiter and assume heliocentric orbits. The motion of satellites V and VI was integrated for three revolutions and was stable for this interval of time. It is concluded that the region of stable motion for cases of elliptical orbits ($e_0 = 0.5$) is determined by the condition $a \leq 0.18$ a.u. Beginning with $a = 0.2$ a.u. the satellite motion is unstable. It is shown graphically in the original that the motion of a material particle in the sphere of influence of Jupiter and outside the sphere can be investigated only by rigorous solution of the restricted three-body problem. The problem cannot be reduced to a two-body problem. Orig. art. has: 10 tables and 9 figures.

ASSOCIATION: Institut teoreticheskoy astronomii AN SSSR (Institute of Theoretical Astronomy AN SSSR)

SUBMITTED: 05Aug61

DATE SEL: 15Jul64

ENCL: 00

SUB CODE: AA

NO REF SOV: 002

OTHER: 000

Card 2/2

CHEBOTAREV, G.A.; MAKAROVA, Ye.N.

Preliminary orbital elements of the first Soviet spaceship
(1960 Ξ_3). Mul.sta.opt.nabl.isk.sput.Zem. no.27:36-41 '62.
(MIRA 15:12)

1. Institut teoreticheskoy astronomii AN SSSR.
(Space vehicles)

CHEBOTAREV, G.A.; MAKAROVA, Ye.N.

Preliminary orbital elements of the cabin (1960 ξ_3) of the fourth
Soviet artificial satellite. *Hiul.sta.opt.nabl.isk.spat.Zem.*
no.28:11-13 '62. (MIRA 15:12)

1. Institut teoreticheskoy astronomii AN SSSR, otdel prikladnoy
nebesnoy mekhaniki.
(Artificial satellites—Tracking)

CHEBOTAREV, G.A.; MAKAROVA, Ye.N.

Preliminary orbit elements of the first Soviet orbital space-
ship (1960 ξ). Biul. sta. opt. nabl. isk. sput. Zem. no.30:
19-22 '62. (MIRA 16:6)

1. Institut teoreticheskoy astronomii AN SSSR, otdel prikladnoy
nebesnoy mekhaniki.
(Artificial satellites—Orbits)

L 27213-65 ARG/WT(d)/FBD/FSF(h)/FSS-2/EXT(1)/FBO/EEC(a)/EWP(m)/FS(v)-3/EEC(j)/EEO-2/
 TT/WW/ EEC(k)-2/ENG(s)-2/FCS/EEC(r)/ENG(v)/EWP(c)/EMA(d)/EPR/EEC(t)/T-2/ETP(h)/
 CW/WR EEC(c)-2/EED-2/FCS(k) Pn-4/Po-4/Pd-1/Pe-5/Pq-4/Pac-4/Pg-4/
 ACCESSION NR: AT5003542Ps-4/Pae-2/Pi-4/Pk-4/Pw-4/Pl-4 S/2816/63/000/032/0024/0027

AUTHORS: Chebotarev, G. A.; Makarova, Ye. N.

TITLE: Preliminary orbital elements of the first Soviet spacecraft (1960 ϵ_2) for
 July 1961 to August 1962

SOURCE: AN SSSR. Astronomicheskii sovet. Byulleten' stantsiy opticheskogo
 nablyudeniya iskusstvennykh sputnikov Zemli, no. 32, 1963, 24-27

TOPIC TAGS: artificial satellite, satellite orbit, satellite tracking, 1960 ϵ_2
 satellite, BESM 2 calculator

ABSTRACT: The equatorial elements and the secular perturbations of the orbit are
 tabulated, part of which is given on the Enclosure. They were obtained by approxi-
 mate visual observation. Because the orbit was nearly circular, the elements M_0
 and ω could not be accurately determined, and λ_0 is therefore used instead. 0
 This is computed from the ascending angle of the orbit. In addition, the values of
 $h = e \sin \omega$ and $l = e \cos \omega$ are given. The value of ϵ was determined from the
 average error in representing observations of the elements at proper times. The
 maximal deviation between observation and computation may reach $3''$. The orbital
 elements have been referred to the true equator and to the equinoctial time t_0 .

Card 1/3

L 27213-65

ACCESSION FR: AT5003542

All calculations were made on a BESM-2 calculator at the Leningradskoye otdeleniye Matematicheskogo instituta AN SSSR (Leningrad Division of the Mathematical Institute AN SSSR) by personnel of the Institut teoreticheskoy astronomii AN SSSR (Institute of Theoretical Astronomy, AN SSSR): I. I. Belozentseva, V. N. Stratilatova, M. T. Lyuleyeva, and V. A. Kulikova under the general direction of Ye. N. Makarova. Orig. art. has: 1 table.

ASSOCIATION: Institut teoreticheskoy astronomii AN SSSR Otdel prikladnoy nebesnoy mekhaniki (Institute of Theoretical Astronomy AN SSSR, Division of Applied Celestial Mechanics)

SUBMITTED: 18Feb63

ENCL: 01

SUB CODE: SV, DC

NO REF SOV: 000

OTHER: 000

Card 2/3

L 27213-65

ACCESSION NR: AT5003542

ENCLOSURE: 01

Preliminary orbital elements of the first Soviet spacecraft (1960 $\mathcal{E}_2$) for
July 1961 to August 1962 and their secular perturbations

U.T. $t_0 = 0^h$	Ω	i	λ_0	ℓ	h	$\bar{n}_0$	ω	e
1961								
July 08	308 $^{\circ}$ 98	65 $^{\circ}$ 00	81 $^{\circ}$ 98	-0 $^{\circ}$ 0392	-1 $^{\circ}$ 1133	5605 $^{\circ}$ 39	268 $^{\circ}$	0.0194
.....								
August 22	304.94	65.00	5.84	+0.0708	+0.1607	5824.06	66	0.0031

α (earth radians)	ζ	$\dot{M}$	$\dot{\omega}$	$\dot{\Omega}$	$\dot{\ell}$	$\dot{h}$	$n' \cdot 10^2$	$n'' \cdot 10^3$
1.06188	0 $^{\circ}$ 4	-1 $^{\circ}$ 88	-0 $^{\circ}$ 43	-3 $^{\circ}$ 41	-0 $^{\circ}$ 0059	+0 $^{\circ}$ 0015	+10 $^{\circ}$ 72	-0 $^{\circ}$ 43
.....								
1.03512	0.4	-2.05	-0.47	-3.73	-0.0011	-0.0047	140.44	+20.92

Card 3/3

L 27209-65

EEQ-2/EMI(d)/FBD/ SF(h)/FS8-2/EMI(1)/EMP(m)/FS(y)-3/EEG(k)-2/ENG(g)-2/
ENG(v)/EMP(c)/EM: d)/EEG(t)/T/EMI-2/EEG(c)-2 Pn-4/Po-4/Pd-1/Pe-5/
Pg-4/Pao-4/Pg-4/ 2/P1-4/Pk-4/P1-4 TT/CI/VR

ACCESSION NR: AT5003543

S/2816/63/000/032/0027/0028

AUTHORS: Chebotarev, G. A.; Makarova, Ye. N.

TITLE: Preliminary data on mean orbital elements for the capsule of the first Soviet spacecraft (1960 ξ_3) in June to September 1962

SOURCE: AN SSSR. Astronomicheskiiy sovet. Byulleten' stantsiy opticheskogo nablyudeniya iskusstvennykh sputnikov Zemli, no. 32, 1963, 27-28

TOPIC TAGS: spacecraft, satellite orbit, visual tracking/ 1960 ξ_3 satellite, BESM 2 computer

ABSTRACT: A table is furnished with the equatorial elements and secular perturbations of the capsule of the first Soviet spacecraft during the period June-September 1962. These elements were obtained from approximate visual observations. Since the orbit is nearly circular, M_0 and ω are not accurately determined, and the tables therefore contain, as well as M_0 , values for mean longitude λ_0 computed from the ascending angle of the satellite orbit; i.e., $\lambda_0 = M_0 + \omega$. The table also contains values of h and l , determined thus: $h = e \sin \omega$ (in degrees) and $l = e \cos \omega$ (in degrees). The value of ϵ determines the average error in presenting

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L 27209-65

ACCESSION NR: AT5003543

observations on a corresponding system of elements at any given interval of time. The maximal deviation between observation and computation may reach 3 6. The orbital elements are referred to the true equator and the equinoctial time t_0 . All computations were made on a rapid BESM-2 computer at the Leningradskoye otdeleniye Matematicheskogo instituta AN SSSR (Leningrad Division of the Mathematical Institute, AN SSSR) by the workers of the Institute of Theoretical Astronomy AN SSSR: I. I. Belozemtseva, V. N. Stratilatova, M. T. Lyuleyeva, and V. A. Kulikova. Orig. art. has: 1 table.

ASSOCIATION: Institut teoreticheskoy astronomii AN SSSR Otdel prikladnoy nebesnoy mekhaniki (Institute of Theoretical Astronomy AN SSSR, Division of Applied Celestial Mechanics)

SUBMITTED: 04Jan63

ENCL: 00

SUB CODE: SV, DC

NO REF SOV: 000

OTHER: 000

Cord 2/2

L 32006-65 FSS-2/FSF(h)/EWG(j)/EEG(a)/EWT(1)/EWG(r)/EEG(j)/FS(v)-3/EWP(n)/EEG(r)/
EWG(s)-2/EWA(d)/EWG(v)/T-2/EEG(t)/EWG(a)/EWG(c) Po-4/Pq-4/Pe-5/Pae-2/Pg-4/Pi-4

ACCESSION NR: AR5005112 TI/DD/GM

S/0313/64/000/007/0009/0009

SOURCE: Ref. zh. Issl. kosm. prostr. Otd. vyp., Abs. 7.62.71.

AUTHORS: Chebotarev, G. A.; Makarova, Ye. N.

TITLE: Preliminary average orbit elements of the cabin of the first Soviet space ship (1960 ϵ_3) for October-December 1962

CITED SOURCE: Byul. st. optich. nablyudeniya iskusstv. sputnikov Zemli, no. 35, 1962 (1963), 31

TOPIC TAGS: artificial earth satellite, satellite orbit eccentricity, secular orbit, equatorial orbit, spacecraft cabin

TRANSLATION: The equatorial elements and secular perturbations of the orbit of the artificial satellite 1960 ϵ_3 in October-December 1962 are presented in tabular form.

SUB CODE: SV

ENCL: 00

Card 1/1

L 32008-55 FSS-2/PSF(h)/EBC(a)/EWT(1)/EDC(j)/PS(v)-3/EWP(u)/EBC(r)/EWG(s)-2/EWA(g)/
EWG(v)/EBC(t) Po-4/Pq-4/Pe-5/Pae-2/Pg-4/Pi-4 TT/GW
ACCESSION NR: AR5005113 S/0313/64/000/007/0009/0009

SOURCE: Ref. zh. Issl. kosm. prostr. Otd. vyp., Abs. 7.62.72

AUTHORS: Chebotaev, G. A.; Makarova, Ye. N.

TITLE: Preliminary orbit elements of the Soviet artificial earth satellite
'Kosmos-8' (1962 α_1) and its vehicle rocket (1962 α_2)

CITED SOURCE: Byul. st. optich. nablyudeniya iskusstv. sputnikov Zemli, no. 35,
1962 (1963), 31-33

TOPIC TAGS: artificial earth satellite, satellite orbit eccentricity, secular
orbit, equatorial orbit, satellite vehicle

TRANSLATION: The equatorial elements and secular perturbations of the satellite
orbits of 1962 α_1 and its vehicle rocket 1962 α_2 in September-December 1962 are
presented in tabular form.

SUB CODE: SV

ENCL: 00

Card 1/1

ACCESSION NR: AT4001194

S/2511/63/009/001/0001/0010

AUTHOR: Chebotarev, G. A.

TITLE: The motion of artificial earth satellites in orbits with small eccentricities

SOURCE: AN SSSR. Inst. teor. astron. Byulleten', v. 9, no. 1, 1963, 1-10

TOPIC TAGS: artificial earth satellite motion, small eccentricity orbit, orbital element perturbation, first order perturbation, integration constant determination, orbital element refinement

ABSTRACT: The perturbations of a nearly-circular artificial earth satellite orbit are considered and symbolic equations are obtained for the first-order perturbations, accurate to the first power of the eccentricity inclusive. The question of calculating more precisely the elements of a nearly-circular orbit is also considered.

Card 1/2

ACCESSION NR: AT4001194

A special section is devoted to the determination of the integration constants. Orig. art. has: 43 formulas.

ASSOCIATION: Inst. teor. astron. AN SSSR (Institute of Theoretical Astronomy, AN SSSR)

SUBMITTED: 14Feb62

DATE ACQ: 25Nov63

ENCL: 00

SUB CODE: AS

NO REF SOV: 003

OTHER: 000

Card 2/2

CHEBOTAREV, G.A.

Aleksandr Marianovich Gishitskii, 1878-1956. Biul.Inst.teor.astron.
9 no.3:216-218 '63. (MIRA 16:10)

CHEBOTAREV, G.A.; BOZHKOVA, A.I.

~~TOP SECRET~~
Motion of artificial satellites of Mars, Venus and Mercury in the
sphere of action of the planet. Biul.Inst.teor.astron. 9:169-184
'63. (MIRA 16:10)

CHEBOTAREV, G.A., prof.; YEFREMOV, Yu.N.

Plenums of the Committees of the Astronomical Council. Vest.
AN SSSR 33 no.10:105-107 O '63. (MIRA 16:11)

L 37672-65 FSF(h)/EWT(1)/FS(v)-3/EEC(k)-2/EWA(d) Pae-2 GN

ACCESSION NR: AT5004162

S/3126/63/000/002/0064/0079

AUTHOR: Czebotariw, G. A. (Chebotarev, G. A.); Makarowa, J. N. (Makarova, Ye. N.); Soczylina, A. S. (Sochilina, A. S.)

TITLE: Determination of orbits and computation of the ephemerides of artificial earth satellites

SOURCE: Nablyudeniya iskusstvennykh sputnikov Zemli, no. 2, 1963. Warsaw, PAN, 1963, 64-79

TOPIC TAGS: artificial earth satellite, artificial satellite observation, satellite ephemeris, artificial satellite orbit

ABSTRACT: Basic formulas intended for reference use at artificial earth satellite observation stations are reviewed. Section 1 discusses the two-body problem and the use of Kepler's laws; Section 2 presents the Gauss method for preliminary determination of artificial earth satellite orbits in the modification proposed by G. M. Bazhenov (*Byulleten' Instituta teoreticheskoy astronomii*, Vol. VII, No. 10, 93, 1960); Section 3 gives the Laplace method for determining the initial orbit as developed by French astronomers (F. Barbier, *Proceedings of the Second International Space Science Symposium, Florence, 1962*, p. 83 and J. Kovalevsky,

Cord 1/82

L 37672-65

ACCESSION NR: AT5004162

0

Space Science Reviews, Vol. I, No. 2, October, 1962, p. 313 and *Space Research*, Vol. II, 1962, p. 91); Section 4 gives a discussion of the influence of the earth's flattening on the motion of an artificial satellite, including the Lagrange formulas; Section 5 is devoted to first-order perturbations for the case of small eccentricities where the Lagrange Formulas are not applicable and based on work by G. A. Chebotarev (*Byull. ITA*, Vol. IX, No. 1, 104, 1963); Section 6 discusses first order perturbations using a variant of the Lagrange formulas as presented by Y. Kozai (*Astronomical Journal*, Vol. 64, No. 9, 1959); Section 7 presents formulas for use in improvement of an orbit on the basis of the materials in the above-cited paper by Chebotarev; Section 8 considers orbital improvement with formulas for use in a general case; Section 9 very briefly considers the influence of atmospheric resistance on satellite motion; Section 10 discusses the appropriate coordination system to be used in reduction of observations; Section 11 gives a procedure for computation of ephemerides of artificial satellites as presented by A. S. Sochilina (*Byull. ITA*, VIII, No. 2, 95, 1961). Orig. art. has: 100 formulas.

ASSOCIATION: none

Card 2/3

ACCESSION NR: AP3007733

S/0033/63/040/005/0812/0818

AUTHOR: Chebotarev, G. A.

TITLE: Gravitational spheres of the large planets, moon and sun

SOURCE: Astronomicheskij zhurnal, v. 40, no. 5, 1963, 812-818

TOPIC TAGS: astronomy, planet, moon, sun, gravity, gravitational sphere, artificial earth satellite, sputnik

ABSTRACT: A restricted three-body problem for the Sun, a planet and an artificial satellite (sputnik) is considered. The heliocentric equations of motion for the sputnik (with the planet as the perturbing body) and for the planet are derived. Then, considering a system of coordinates attached to the planet's center, whose axes are parallel to the heliocentric coordinate system, the equations of motion for the sputnik in the former coordinate system are derived. With the Sun as the central body, let R be the acceleration it imparts to the sputnik and let F be the perturbing acceleration caused by the planet's attraction. With the planet as the central body, let R_1 be the acceleration it imparts to the sputnik and let F_1 be the perturbing acceleration caused by the Sun's attraction. Expressions are obtained for R , F , R_1 , and F_1 in terms of the coordinates of the bodies (in the appropriate system), the planetary mass, the radii of the planet and the sputnik,

Card 1/2

ACCESSION NR: AP3007733

and the angle made at the planet's center by the directions to the centers of the Sun and the sputnik. In terms of these four quantities, the following values are obtained for the nine large planets, the Moon and the Sun: (1) the minimum and maximum values of Δ_1 (the radius of the sphere of influence); (2) the minimum and maximum values of Δ_2 (the radius of the gravisphere); and (3) the value of Δ_3 (the radius of the Hill sphere). The values are given both in astronomical units and in millions of kilometers, using the equivalence: 1 a.u. = 149.6 million km. Orig. art. has: 8 tables and 34 formulas.

ASSOCIATION: INSTITUT TEORETICHESKOY ASTRONOMII AKADEMII NAUK SSSR (Institute of Theoretical Astronomy, Academy of Sciences, SSSR)

SUBMITTED: 02Jan63

DATE ACQ: 22Oct63

ENCL: 00

SUB CODE: AS

NO REF SOV: 001

OTHER: 000

Card 2/2

CHEBOTAREV, G.A.; BOZHKOVA, A. I.

Movement of polar satellites of Mars, Venus, and Mercury.
Biul. Inst. teor. astron. 9 no. 6:388-393 '64. (MIRA 17:9)

L 10780-65 EWT(1)/EWG(v)/EEC(t) Pe-5/Pae-2 AFWL/SSD/AFETR/ESD/ESD(t) GW

ACCESSION NR: AP4047162

S/0033/64/041/005/0983/0989

AUTHOR: Chebotaev, G. A.

TITLE: Concerning the limits of the solar system

SOURCE: Astronomicheskii zhurnal, v. 41, no. 5, 1984, 983-989

TOPIC TAGS: solar system, galactic nucleus, Galaxy, astrophysics, comet, cometary orbit, hyperbolic cometary orbit

ABSTRACT: This article considers the problem of the motion of a body of small mass (termed here a "comet") in the outer region of the solar system. The gravitational field of the Galaxy as a whole is considered as the constantly acting perturbing factor. It is assumed that the motion of the sun around the center of the Galaxy conforms to Kepler's laws, and the entire mass of the Galaxy is assumed to be concentrated at its center. Solution of the problem of the actual motion of a comet within the limits of the solar system is based on numerical integration of the presented equations of motion; 5 orbits are considered (in each case both direct and retrograde motion are analyzed). It is concluded that the dynamic limits of the solar system can be defined by the following numerical values for the maximum radii of stable orbits: 1) direct motion, maximum radius of stable orbit $R_1 = 230,000$ a.u.; retrograde motion, maximum radius of stable

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L 10780-65

ACCESSION NR: AP4047162

orbit $R_2 = 100,000$ a.u. In the solar system direct motion is more stable than retrograde motion. (By stable motion of a comet is meant motion when the cometary orbit remains elliptical during several revolutions around the sun.) (Unstable motion is defined as motion when a comet, after one or two revolutions around the sun, assumes a hyperbolic orbit and forever abandons the solar system.) In the region of space 100,000-230,000 a.u. only direct stable motion of comets is possible. "All computations in this study were made by A. I. Bozhkova, scientific specialist at the Institute of Theoretical Astronomy, to whom the author expresses his thanks". Orig. art. has: 2 formulas, 10 figures and 10 tables.

ASSOCIATION: Institut teoreticheskoy astronomii, Akademiya Nauk SSSR (Institute of Theoretical Astronomy, Academy of Sciences, SSSR)

SUBMITTED: 04Feb64

ENCL: 00

SUB CODE: AA

NO REF SOV: 002

OTHER: 000

Card 2/2

CHEBOTAREV, G.A.

Boundaries of the solar system. Astron.zhur. 41 no.5:983-989
S-0 '64.

1. Institut teoreticheskoy astronomii AN SSSR.

(MIRA 17:10)

CHEBOTAREV, G.A.; KIRPICHNIKOV, S.N

Study on the motion of artificial moon satellites. Biul. Inst.
teor. astron. 10 no.2;109-117 '65. (MIRA 18:7)

CHEBOTAREV, Gleb Aleksandrovich; SUBBOTIN, M.F., otv. red.

[Analytic and numerical methods in celestial mechanics]
Analiticheskie i chislennyye metody nebesnoi mekhaniki.
Moskva, Nauka, 1965. 366 p. (MIRA 18:9)

1. Chlen-korrespondent AN SSSR (for Subbotin).

ZHELEZNYAK, M.B.; MAL'KOVA, A.G.; ROMYANTSEVA, L.I.; CHEBOTAREV, G.A.,
prof., otv. red.

[Stellar positions and reduction constants for stars of the time
service program for the epoch 1970.0.] Zvezdnye polozenia i
reduktsionnye postolannye zvezd programmy sluzhby vremeni na
epokhu 1970.0. [Leningrad, 1965]. 34 p. (Akademiia nauk SSSR.
Institut teoreticheskoi astronomii. Biulleten' vol.10, no.2.
Supplement). (MIRA 18:7)

1. Direktor Instituta teoreticheskoy astronomii AN SSSR (for
Chebotarev).

ACC NR: AR6016280 FSS-2/EMI(1)/EMP(m) TT/GW

SOURCE CODE: UR/C269/66/000/001/0014/0014

AUTHORS: Chebotaev, G. A.; Kirpichnikov, S. N.

TITLE: A study of the motion of artificial moon satellites

SOURCE: Ref. zh. Astronomiya, Abs. 1.51.102

REF SOURCE: Byul. In-ta teor. astron. AN SSSR, v. 10, no. 2, 1965, 109-117

TOPIC TAGS: lunar satellite, satellite orbit

ABSTRACT: The authors review twenty different variants of orbits for fictitious moon satellites. The coordinates and velocities of the earth, moon, and sun at the moment $t_0 = 1960$ October 24.0 were taken as initial data in all variants. The earth and sun were viewed as material points, while a uniformly rotating homogeneous tri-axial ellipsoid was taken as the figure of the moon. The integration of differential equations of motion was carried out according to the Runge-Kutta method with an automatic selection of the length of the step on a BESM-2 electronic computer. The results of the numerical integrations were tabulated. The authors claim that the motion of near equatorial moon satellites with direct movement is stable even in the case of orbits with great eccentricities. Instability arises with a magnitude of a large semiaxis equal to approximately 15 lunar radii. It is established that polar satellites have an unstable motion, so that after a small number of revolutions

Card 1/2

UDC: 521.61

L 45311-66

ACC NR: AR6016280

tions they fall to the lunar surface or go into a hyperbolic orbit. Equatorial satellites with a retrograde motion are the most stable. Instability arises only with a magnitude of a large semiaxis equal to approximately 25 lunar radii, the radius of the sphere of influence of the moon being equal to 38 lunar radii. R. Yeremenko [Translation of abstract]

SUB CODE: 03 22,

mjs

L 31462-66 ENT(1) (R)

ACC NR: AP6023113

SOURCE CODE: UR/0033/66/043/002/0435/0440

AUTHOR: Chebotarev, G. A.

ORG: Institute of Theoretical Astronomy, AN SSSR (Institut teoreticheskoy astronomii AN SSSR)

TITLE: Motion of comets in the outer regions of the solar system

SOURCE: Astronomicheskij zhurnal, v. 43, no. 2, 1966, 435-440

TOPIC TAGS: comet, solar system, celestial body motion

ABSTRACT: A study has been made of the motion of a body of infinitely small mass ("comet") in the outer regions of the solar system. It is assumed that the galactic nucleus is the perturbing body. It is demonstrated that the stable motion of a comet (when $e_0 = 0.6$) is possible at a distance of 80,000 a.u. from the sun. The limits of the cometary "cloud" are approximately 60,000-100,000 a.u. The author thanks A. I. Bozhkova, scientific colleague at the Institute of Theoretical Astronomy for making all the calculations in this work. Orig. art. has: 8 figures and 8 tables.
[JPRS]

SUB CODE: 03 / SUBM DATE: 06Nov65 / ORIG REF: 002

Cord 1/1/mc

UDC: 521.7

CHEBOTAREV, G. M.

CHEBOTAREV, G. M.; DUSMATOV, S. S.; and BADALOV, S. T.

"Influence of Medium on the Composition and Form of Calcite Crystals,"
Dokl. AN UzSSR, No 3, 39-43, 1953 (Uzbekistani resume)

The authors have studied the various crystalline forms of calcites which occur under various geological and physicochemical conditions from one of the deposits of Central Asia. The composition of the studied calcites, their color, specific gravity are due, up to a certain extent, to the composition of the containing rocks in which the crystallization of the mineral occurs. The form of the calcite crystals almost does not depend on their composition, but, in considerable degree, is due to the peculiarities of the chemism of the medium in which they are formed.

RZhGeol. No 1, 1955

CHEBOTAREV, G.M.; CHEBOTAREVA, G.P.

Find of anthraxolite in the Uch-Kulach complex metal de-
posit. Zap.Uz.otd.Vses.min.ob-va no.13:134-138 '59.
(MIRA 13:7)

(Uzbekistan--Anthraxolite)

CHEBOTAREV, G.M.

Eutaxitic structures of the ores of complex metal deposits in
Uzbekistan. Zap. Uz. otd. Vses. min. ob-va no.16:71-79 '64.
(MIRA 18:6)

CHEBOTAREV, G. N.

"The Solution in Closed Form of the Riemann Boundary Value Problem for a System of n Pairs of Functions." Cand Phys-Math Sci, Kazan' State U, Kazan', 1954. (RZhMat, Sep 54)

SO: Sum 432, 29 Mar 55

CHEBOTAREV, G. N.

USSR/Mathematics

Card : 1/1

Authors : Chebotarev, G. N.

Title : Solution of matrix equation $e^B \cdot e^C = e^{B+C}$

Periodical : Dokl. AN SSSR, 96, Ed. 6, 1109 - 1112, June 1954

Abstract : It is known that the law governing the addition of exponents during multiplication $e^B \cdot e^C = e^{B+C}$ is justifiable for commutative matrices. The author points out the error (omission of an entire class of such matrices) made by M. Frechet in his determination of the general matrix form and presents his own solution to the problem of the matrix equation. Four references.

Institution : ...

Presented by : Academician A. N. Kolmogorov, April 13, 1954

CHEBOTAREV, G. N.

Call Nr: AF 1108825

Transactions of the Third All-union Mathematical Congress, Moscow, Jun-Jul '56,
Trudy '56, V. 1, Sect. Rpts., Izdatel'stvo AN SSSR, Moscow, 1956, 237 pp.

Mention is made of Kreyn, M. G.

There are 3 references, 2 of which are USSR, and 1 English.

Chebotarev, G. N. (Kazan'). Some Matrix Equations and Their
Application for Solving in Closed Form Riemann Boundary Problem
For Pair Function Systems and for Solving of Systems of Linear
Differential Equations.

110-111

Chelidze, V. G. (Tbilisi). Some Summation Methods
of Multiple Series.

111

Chibrikova, L. I. (Kazan'). On Riemann Boundary Problem
of Automorphic Functions.

111

Shaginyan, A. L. (Yerevan). The Velocity of Polynomial
Approximation on a Closed Set.

111-112

Mention is made of Lavrent'yev, M. A.

There is 1 USSR reference.

CHIBOTAROV, G.N.

Particular indexes for the Riemann boundary value problem with a triangular matrix of the second order. Usp.mat.nauk 11 no.3:199-202 My-Je '56. (MIRA 9:9)
(Riemann surfaces) (Matrices)

CHEBOTAREV, G.N.

Closed-form solution for a system of two ordinary linear differential equations. Trudy KAI 31:107-111 '56. (MLRA 10:5)
(Differential equations, Linear)

CHEBOTAREV, G.N.

Solution of Riemann's boundary problem in the closed form for a
system of n -pairs of functions. Uch. zap. Kaz. un. 116 no.4:31-
58 '56. (MIRA 10:4)
(Functions of complex variables)

CHEBOTAREV, G.N. (Kazan')

Matrix equation. Trudy KAI 38:93-101 '58.
(Matrices)

(MIRA 16:8)

5

16(1)

AUTHORS: Bogdanov, Yu.S., Chebotarev, G.N. SOV/140-59-4-5/26

TITLE: On Matrices Commutating With Their Derivative

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Matematika, 1959, Nr 4, pp 27 - 37 (USSR)

ABSTRACT: A matrix is called conservative, if it maintains the Jordan normal form on an interval, i.e. if it possesses the same Segre characteristic in every interval point. The authors consider conservative matrices $A(t)$ which commute with their derivative $A'(t)$.

Theorem : Let the matrix $A(t)$ be everywhere differentiable or absolutely continuous, conservative and commute with its derivative on the interval (a,b) ; let the elementary divisors of $A(t)$ be relative prime. Then $A(t)$ is functional-commutative (i.e. their values commute with each other in two arbitrary interval points).

A second theorem contains the statement on conservative everywhere differentiable matrices, the characteristic polynomial of which is decomposed into two relatively prime factors. Several examples are discussed.

Card 1/2

On Matrices Commutating With Their Derivative

SOV/140-59-4-5/26

The authors mention V.V. Morozov and N.P. Yerugin.

There are 10 references, 6 of which are Soviet and 4 Italian.

ASSOCIATION: LOMI imeni V.A. Steklova AN SSSR (LOMI imeni V.A. Steklov AS
USSR)

Kazanskiy aviatsionnyy institut (Kazan' Aviation Institute)

SUBMITTED: August 12, 1958

Card 2/2

3(4)

TABLE 1 BOOK EVALUATION 007/001

Reviews. Universities. Geographically situated
Voprosy glazologii (Problems in Glaciology) (Moscow) Ind-ro
Nauk, 1977. 231 p. 2,400 copies printed.

Rey. No. 1. V. V. Shumylov and L. B. Shumylov, Tech. Sci. M.S.
Soviet Union.

REVIEW: This book is intended for hydrologists and geographers.
contents. This collection of articles on the hydrology of the
mountain is dedicated to Professor Yu. V. Shumylov, Doctor of Tech-
nical Sciences. Among the topics discussed are: 1) the effect
of air temperature on river regime, 2) the calculation of snow
melt, 3) the speed of flood waves, 4) stream levels, 5) river
spring floods, 6) suspended sediments in running streams, 7) the
effect of agricultural practices on hydrology, and others. The
illustrations are accompanied by maps, graphs, tables, and illustrat-
ions. The present or long-term hydrology of the USSR. References
accompany each article.

Card 1/6

effect of agricultural practices on hydrology, and others. The
illustrations are accompanied by maps, graphs, tables, and illustrat-
ions. The present or long-term hydrology of the USSR. References
accompany each article.

TABLE OF CONTENTS

Table of Contents 3

Shumylov, V. V. Investigating the Speed of Movement of
Flood Waters 43

Shumylov, V. V. Problems of Geographic Interpolation in
Hydrology 56

Shumylov, V. V. Problems in Expanding Hydrological Series
64

Shumylov, V. V. and V. I. Poltavskiy. River Bed Deforma-
tions in the Region of Run Foundations on Mountain Streams 69

Shumylov, V. V. Characteristics of Stream Level Status Regime 79

Shumylov, V. I. Maximum Flooding as Related to Snow Melting
Card 3/6 88

CHEBOTAREV, N. P.

CHEBOTAREV, N.P.

**Investigating the elements of the flood hydrograph, their variability, and safety. Trudy Ukr. NIGMI no.9:121-136 '57. (MIRA 11:1)
(Floods)**

The Subterranean Water Discharge and the Variation
of the Annual Discharge

SOV/50-59-1-7/20

variation of the annual discharge is overrated by the authors. They ignore the importance of the basin surface as a factor of the variation in annual precipitations. 5. The formula suggested for determining the coefficient of variation of the annual discharge in small basins does not consider all factors, and may therefore lead to big errors. There are 7 Soviet references.

Card 2/2

CHEBOTAREV, N.P.

Calculation of annual precipitation, evaporation, and runoff
variations. Trudy UkrMIGMI no.19:136-148 '59.

(MIRA 13:4)

(Hydrology)

CHEBOTAREV, Nikolay Petrovich; SKVIRSKAYA, M.P., red.; YUNOVSKIY, Ye.B.,
tekhn. red.

[Continental hydrology] Gidrologiya sush. Kiev, Izd-vo Kiev-
skogo univ., 1960. 378 p. (MIRA 14:11)
(Hydrology)

CHEBOTAREV, N.P., doktor tekhn.nauk, prof.

Problem concerning the theoretical determination of the calculational
(optimum) magnitude of assurance of maximum expenditures.

Izv. vys. ucheb. zav.; energ. 4 no.8:92-97 Ag '61.

(MIRA 14:8)

(Hydraulic engineering—Costs)

CHEBOTAREV, Nikolay Petrovich. Prinimali uchastiye: BLIZNYAK, Ye.V.,
doktor tekhn. nauk, prof., retsenzent [deceased]; APOLLOV,
B.A., doktor tekhn. nauk, prof., retsenzent; BEFANI, A.N.,
doktor tekhn. nauk, prof., retsenzent; BYKOV, V.D., kand.
tekhn. nauk, retsenzent; KALININ, G.N., red.; BELYAKOVA, Ye.V.,
red.; GEORGIYEVA, G.I., tekhn. red.

[Study of runoff] Uchenie o stoke. Moskva, Izd-vo Mosk. univ.,
1962. 405 p. (MIRA 15:8)

(Runoff)

CHEBOTAREV, N. P.

New type of weir, its study and design. Trudy UkrNIGMI no.39:
90-96 '63. (MIRA 16:7)

(Weirs)

SALAKHOVA, I.M.; CHEBOTAREV, G.N.

Solvability in a finite form of some systems of linear differential equations. Izv. vys. ucheb. zav.; mat. no. 3:230-234 '60.
(MIRA 13:12)

1. Kazanskiy gosudarstvennyy universitet i Kazanskiy aviatsionnyy institut.

(Differential equations, Linear)

CHEBOTAREV, N.G.; DOBROVOL'SKIY, V.A.

Applicability of the theory of ideals to algebra. Ist. mat.
issl. no.14:539-550 '61. (MIRA 16:10)

(Rings (Algebra))

CHEBOTAREV, G.N. (Kazan')

Rings of functions integrable with weight. Izv. vys. ucheb. zav.;
mat. no.5:133-145 '63. (MIRA 16:11)

CHEBOTAREV, G.P. (SShA)

Notes on a certain session. Osn., fund.i mekh.grun. 3 no.6:5-6
'61. (MIRA 15:4)

(Soil mechanics—Congresses)

L 63229-65 EEO-2/EWT(d)/FSS-2/EWT(1)/EWT(m)/FA/FA(b)/EWA(d)/T-2/EWP(h)/EWA/EED-2/
EWA(g)/FCS(k)/EWA(c)

ACCESSION NR: AP5017032

UR/0209/65/000/007/0029/0032

AUTHOR: Petrov, S. (Military pilot first class, Engineer, Colonel); Chebotarev, I.
(Engineer, Major)

TITLE: Firing at ground targets from the L-29 aircraft

38
B

SOURCE: Aviatsiya i kosmonavtika, no. 7, 1965, 29-32

TOPIC TAGS: pilot training, aircraft cannon, gunnery training, gun sight, aircraft
ammunition, aircraft/L-29 aircraft, ASP-3NM slash U gunsight

ABSTRACT: In an article dealing with training in flying schools, the use of an L-29
aircraft equipped with an ASP-3NM/U gunsight for diving attacks on ground
targets, using S-5M shells is discussed. The gunsight is designed for 12.7-mm
bullets and 23-mm shells, the ballistic characteristics of which differ from
the S-5M shell.

Card 1/5

L 63229-65

ACCESSION NR: AP5017032

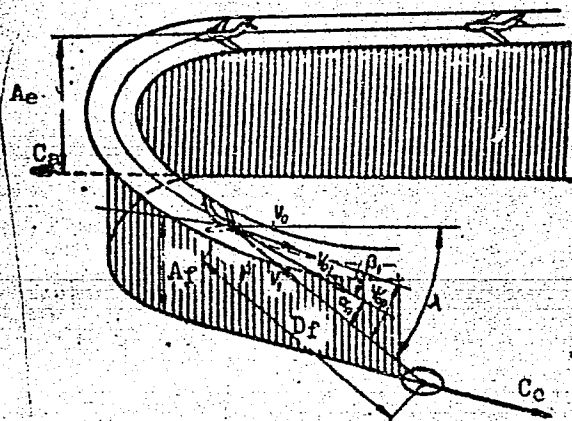


Fig. 1. Aiming system

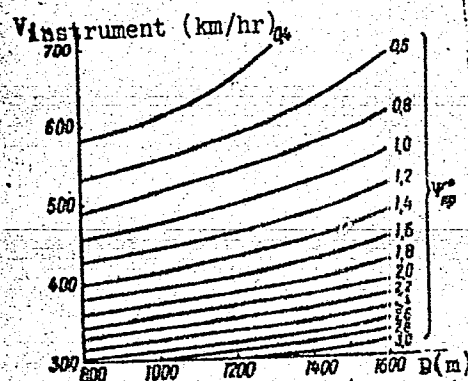


Fig. 2. Correction for angle ψ

A_e - Entry altitude; C_a - auxiliary course;
 A_f - firing altitude; D_f - firing distance;
 C_c - combat course.

Card 2/5

L 63229-65

ACCESSION NR: AP5017032

The recommended approach to the target is carried out as follows:
altitude - not less than 1500 m; angle of diving attack - 30° ; firing altitude - 600 m; range of fire - 1200 m (firing range is estimated by comparing the size of the target with the size of the range-finder reticle); speed of aircraft when firing - 430—450 km/hr.

To compensate for gravity drops and slip, the center of the reticle is displaced downward to the value of the correction for angle Ψ , which is equal to the sum of angles β and α (see Fig. 1); the total correction (β and α) depends on the dive angle, aircraft speed, and range when firing. A graph (see Fig. 2) shows the correction for angle Ψ at a dive angle λ of 40° . The maneuver pattern is shown (see Fig. 3). The use of air brakes does not appreciably decrease speed; it does, however, set up vibration in the pedals, thus reducing the quality of aiming. Orig. art. has: 2 figures, 3 graphs.

Card 4/5

L 63229-65

ACCESSION NR: AP5017032

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: WA, AC

NR REF SOV: 000

OTHER: 000

ATD PRESS: 4046-F

Card
Card 5/5

CHEBOTAREV, I. A.

USSR/Metals - Alsifer, Magnetic Properties 21 Nov 51

"On Relationship Between the Coercive Force and Particle Size of the Powders of Soft Magnetic Materials," Ya. S. Shur, T. D. Zotov, I. A. Chebotarev, Inst of the Phys of Metals, Ural Affiliate, Acad Sci USSR "Dok Ak Nauk SSSR" Vol LXXXI, No 3, pp 387-389, 1951

Powders of alsifer (9.4% Si, 5.6% Al, balance Fe) were used to study dependence of coercive force on size of powder grains and effect of stresses and temp on this relationship. Coercive force was high cold hardening during crushing and those annealed from 1,000° in high vacuum. Results are graphically represented and discussed. Submitted by Acad A. F. Ioffe 21 Nov 51.

PA 214T63

SOV/137-57-10-19046

Translation from: Referativnyy zhurnal, Metallurgiya, 1957, Nr 10, p 88 (USSR)

AUTHOR: Chebotarev, I. A.

TITLE: The Desirability of Using Lightened Beams in the Manufacture of Flat Cars (O tselesoobraznosti primeneniya oblegchennykh balok dlya izgotovleniya zheleznodorozhnykh platform)

PERIODICAL: V sb.: Ratsionalizatsiya profiley prokata. Moscow, Profizdat, 1956, pp 174-177

ABSTRACT: If a lightened beam (LB) with a section suitable to assure a smaller moment of resistance were used to produce flat cars, the consumption of rolled metal per flat car could be cut by approximately 40 kg, and the reduction in the overall weight of a flat car would be ~ 350 kg. Were such a beam introduced, the annual saving at the Dneprodzerzhinsk Rolling Stock Plant would be ~1,400,000 rubles. A negative aspect of the economical Nr 55 LB, as is the case with that now in use, is its inadequate strength. To eliminate these shortcomings and cut the costs of production, the design office of the plant has developed 3 variants of the LB. The economies inherent in these new shapes are obvious: The ratio of the moment of resistance to

Card 1/2

SOV/137-57-10-19046

The Desirability of Using Lightened Beams in the Manufacture of Flat Cars

the running weight per meter for the Nr 55 beam (B) meeting the standard now in force is 21.8, that for the second variant is 24.7, and that for the third is 25.2. Utilization of these B for flat cars would cut the man-hours required by 8 hrs 27 min per flat car; this would make it possible to eliminate one man per shift per flat car or 20 men per shift in mass production. The third variant of the B is the most rational. With its use the gross weight of a flat car may be cut by 479 kg, the rolled metal used by 510 kg, and the annual saving of metal by the plant would be 3060 t. In addition, the lightening of the car weights would result in considerable operating economies. Reduction in hauling costs by means of flat cars made of these beams is calculated to be 0.54%.

B.Ye.

Card 2/2

CHEBOTAREV, I.A.; FRENKEL', E.I.

Sixty ton capacity flat cars having new board locks. Biul.tekh.-ekon.
inform. no.7:70-71 '58. (MIRA 11:9)
(Railroads--Freight cars)

CHEBOTAREV, I. I.		1ST AND 2ND ORDERS		PROCESSES AND PROPERTIES INDEX		3RD AND 4TH ORDERS	
<i>ca</i> Geothermal stages and the chemistry of artesian waters of southern Kazakhstan. I. I. Chebotarev. <i>Russkaya Voda</i> (Soviet Union Prospecting) 8, No. 3, 24 6 (1935). Geothermal and chem. investigations of the waters indicate the presence of crude oil. A. A. Bochtling.		<i>8</i>					
450-550 METALLURGICAL LITERATURE CLASSIFICATION							
EDDM STORING		EDDM MAP ONLY		EDDM STORING		EDDM MAP ONLY	

CHEBOTAREV, I. I.																																																																													
1ST AND 2ND ORDERS													PROCESSES AND PROPERTIES INDEX																																																																
<i>CA</i> The mineralogical composition of and the giving off of water by the loessland of the western lower Caucasus Mountains. I. I. Chebotarev. <i>Mém. soc. russe mineral.</i> 66, 843-861 (1947); <i>Trav. Zvez.</i> 1938, II, 1028-1. Down to a depth of 37 m, in the loessic soil studied the chief constituent (60-80%) was found to be carbonate rock which occurs as colorless and brown rounded grains or as aggregates of small irregular grains. Second in importance is quartz (8-50%), and then feldspars (3-30%). The latter influence the surface structure as a result of the expansion of the grains during weathering and the consequent formation of pores and holes. In addition to the macropores visible to the naked eye, an important role in the water economy of the soil is played by the microscopic pores (capillary and subcapillary), which hold a film of water tenaciously and in this way tend to prevent the loss of water from the surface of the soil. They thus exert a kind of buffer action. When such pores holding a min. of water, which acts as a binding or fixing agent, take up addnl. water from layers having more moisture, the binding or fixing effect is rapidly lost, with the result that the stability of the soil is reduced and its firmness in supporting a vertical load decreased. M. G. M.																																																																													
ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION																																																																													
<table border="1"> <thead> <tr> <th colspan="13">RECORD #</th> <th colspan="13">RECORD #</th> </tr> </thead> <tbody> <tr> <td colspan="13">1 2 3 4 5 6 7 8 9 10 11 12 13</td> <td colspan="13">1 2 3 4 5 6 7 8 9 10 11 12 13</td> </tr> </tbody> </table>																										RECORD #													RECORD #													1 2 3 4 5 6 7 8 9 10 11 12 13													1 2 3 4 5 6 7 8 9 10 11 12 13												
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CHEBOTAREV, I.I.

MP / Metamorphism of natural waters in the crust of weather-
ing. II. I. I. Chebotarev. *Geochim. et Cosmochim. Acta* 8,
137-70(1955); cf. preceding abstr. — A summary of factual
data is presented covering the fields of hydraulics and sa-
linity of waters, subterranean waters in oil fields, chem-
compn. of natural brines, salt domes and assocd. waters, sub-
terranean waters of volcanic assocn., salinity of water as-
socd. with metalliferous deposits, and salinity of waters
from sedimentary, metamorphic, and igneous rocks. 68
references. Gerald M. Friedman

CHEBOTAREV, I. I.

MD Metamorphism of natural waters in the crust of weather-
ing. III. I. I. Chebotarev. *Geokim. et Kosmochim. Acta*
8, 198-212(1955).—A discussion of data (cf. preceding
abstrs.) from the hydrological approach; a cycle is formulated
relating salinity, hydrochem. facies and the geochemistry of
chloride, sulfate, and bicarbonate waters. J. J. B.

CHEBOTAREV, I.I.

Circuit for self-starting of low-voltage electric motors.
Prom. energ. 16 no.8:35-36 Ag '61. (MIRA 14:9)
(Electric motors)

CHEBOTAREV, Ivan Konstantinovich; GOLOSOV, A., red.; TSIVUNIN, I.,
tekhn. red.

[New developments in the floating of lumber down the rivers
of the Komi A.S.S.R.] ~~Novos~~ v organizatsii splava po rekam
Komi ASSR. Syktyvkar, Komi knizhnoe izd-vo, 1962. 58 p.
(MIRA 15:11)

(Komi A.S.S.R.—Lumber—Transportation)

MAKHNOVSKIY, Ivan Konstantinovich; ROMANENKO, Klavdiya Yevstaf'yevna;
CHEBOTAREV, Ivan Nikolayevich; YUDENICH, V.P., red.;
KOMEROVA, V.I., tekhn. red.

[Nut and fruit forests and their protection against pests
in Kirghizistan] Orekhovo-plodovye lesa Kirgizii i okhrana
ikh ot vreditel'ei. Frunze, Kirgizskoe gos.izd-vo, 1963. 67 p.
(MIRA 17:3)

CHEBOTAREV, I. P. (Professor)

"Rationalization of the Distribution Density of Meteorological Stations," Works of
Voronezh State Institute, Vol XIII, 1946 (9-10).
(Meteorologiya i Gidrologiya, No 6 Nov/Dec 1947)

SO: U-3218, 3 Apr 1953

CHIBOTAROV, I.T., dotsent; LEDENEV, V.K., vettekhnik.

Structural characteristics of a cow's six-teat udder. Veteri-
naria 30 no.4:41-45 Ap '53. (MLRA 6:4)

1. Moskovskaya veterinarnaya akademiya.

CHIBOTAROV, I.T., kandidat biologicheskikh nauk.

**Mechanism of air expulsion in coughing. Veterinariia 33 no.10:73-74
© '56. (MLA 9:10)**

**1. Moskovskaya veterinarnaya akademiya.
(Cough)**

CHEBOTAREV, I. T.

USSR/ Farm Animals. Cattle. Q

Abs Jour: Ref Zhur-Biol., No 9, 1958, 40424.

Author : Chebotarev, I. T.

Inst : Not given.

Title : On the Individual Variations of the Udder in Cows.

Orig Pub: Zhivotnovodstvo, 1957, No 7, 60-61.

Abstract: Two types of the udder have been distinguished: that with large teat cisterns and that with small ones. There exist also variations depending on the diameter of the milk ducts and the place where they draw together, as well as on the size of the quarters of the udder. The technology of milking (hand-~~or~~ machine-milking) should be determined in relation to the form and peculiarities of the udder.

Card 1/1

GUSEVA, L.A.; ZDANOVSKAYA, Ya.L.; KRIVOSHEINA, N.A.; KHRUSTALEVA, I.V.;
CHEBOTAREV, I.T.; DREVLYANSKAYA, N.I., red.; PROKOF'YEVA, L.N.,
tekhn. red.

[Manual for laboratory work in the anatomy of farm animals] Po-
sobie k prakticheskim zaniatiyam po anatomii sel'skokhoziaistven-
nykh zhivotnykh. Moskva, Sel'khozizdat, 1962. 170 p.

(MIRA 15:7)

(Veterinary anatomy)

CHTBOtarev, I. V.

"Certain Problems of Laying the Water Supply Pipes in Saline Grounds and Measures Against Corrosion." Sub 11 Jun 47, Moscow Order of Lenin Inst of Railroad Engineers imeni I. V. Stalin. Candidate of Technical Sciences.

Dissertations presented for degrees in science and engineering in Moscow in 1947

SO: Sum No. 457. 18 Apr 55

CHIBOTAREV, I.V., kandidat tekhnicheskikh nauk; IYEVLEV, M.V., inzhener

Sealing bell-mouthed cast iron pipe joints with expansion cement.
Transp.stroi.5 no.6:10-12 Ag'55. (MLRA 8:12)

(Water pipes)

MOSKVIN, G.N.; CHEBOTAREV, I.V., kand. tekhn. nauk, red.; KHITROV,
P.A., tekhn. red.

[Operation of railroad water supply] Eksploatatsiia zhelezno-
dorozhnogo vodosnabsheniia. Moskva, Zheldorizdat, 1951. 542 p.
(MIRA 16:7)

(Railroads--Water supply)

CHEBOTAREV, I. YE.

Chebotarev, I. Ye.

"Some data on the technology and veterinary-sanitary expertise of goat meat." Min Higher Education USSR. Kazan' Veterinary Inst imeni N. E. Bauman. Saratov, 1956. (Dissertation For the Degree of Candidate in Veterinary Sciences)

Knizhnaya letopis'

No 34, 1956. Moscow.

4e
OSETROV, A., dotsent; TRIFONOVA, T., dotsent; CHEBOTAREV, I., assistant;
AKSENOV, N., assistant

Veterinary examination of carcasses of sheep affected by disease
caused by feather grass. Mias.ind.SSSR 30 no.6:32-34 '59.
(MIRA 13:4)

1. Semipalatinskiy sooveterinarnyy institut.
(Sheep--Diseases)

CHEBOTAREV, I. Ye., AKSENOV, N. S., OSETROV, A. A. and TRIFONOVA, T. K.

"Feather grass disease in sheep in Kazakhstan."

Veterinariya, Vol. 37, No. 5, 1960, p. 37

*Chebotarev -
Assistant, Semipalatinsk Zoovet. Inst*

OSETROV, A.A., dotsent; TRIFONOVA, T.K., dotsent; CHEBOTAREV, I.Ye.,
assistant; AKSENOV, N.S., assistant

Examining the carcasses of sheep injured by feather grass.
Veterinariia 41 no.7:97-98 J1 '64. (MIRA 18:11)

1. Semipalatinskiy zooveterinarnyy institut.

CHEBOTAREV, K.

42413: CHEBOTAREV, K. sotsialcheskoye sel'skoye khozyaystvo na novom pod'eme. pogranichnik, 1948, No. 22 s 17-24.

SO: Letopis' Zhurnal'nykh Statey, Vol. 47. 1948

CHEBOTAREV, K.

25472

Tempy Razvitiya Narodnogo Khozyaystua SSSR. Molodoy Bol'shevik 1949, No. 14,
S. 24-33

SO: LETOPIS' No. 34

MERKULOV, V.A., gornyy inzh. (g.Shakhty); CHEBOTAREV, K.A., gornyy inzh.
(g.Shakhty)

Dust control in the Rostovugol' Combine mines. Ugol' 35 no.5:21-
23 Ny '60. (MIRA 13:7)

(Donets Basin--Mine dusts)

ChebotaREV, KOVAL

USSR/UKRAINE/General Section - History, Classics,
Personalities

A-2

Abs Jour : Referat Zhurn. Biol. No 16, 25 Aug 1957, 67864

Author : ChebotaREV, KOVAL

Title : Aleksandr Prokofevich Markevich (50th anniversary)

Orig Pub : Tr. In-tu Zool. AN USSR, 1956, 13, 101-109

Abstract : No abstract.

Card 1/1

- 31 -

CHEBOTAREV, KONSTANTIN ALEKSANDROVICH

TORSKIY, Pavel Nikolayevich; RABICHEV, Aleksandr Ivanovich; ~~CHEBOTAREV, Konstantin Aleksandrovich~~; KHEYFITS, S.Ya., etvetstvennyy redaktor; TYUTYUNIKOVA, N.A., redaktor izdatel'stva; NADEINSKAYA, A.A., tekhnicheskiiy redaktor.

[Elimination of dust from coal mines] Obespylivanie gol'nykh shakht.
Moskva, Ugletekhizdat, 1956. 298 p. (MLRA 10:4)
(Coal mines and mining--Safety measures)
(Mine dusts)

CHEBOTAREV, K.S.

Effectiveness of pantothenic acid in the treatment of herpes
zoster. Sov.med. 24 no.3:140-141 Apr '61. (MIRA 14:3)
(HERPES ZOSTER) (PANTOTHENIC ACID)

DAUTOV, R.; CHEBOTAREV, L., inzhener-konstruktor !

Fluid connection clutch for compressors of 6L-275 engines (Skoda).
Rech.transp. 20 no.6:34-35 Je '61. (MIRA 14:6)

1. Pervyy mekhanik teplokhoda "Akademik Tyurin" (for Dautov).
2. Podtesovskaya remontno-ekspluatatsionnaya baza (for Chebotarev).
(Marine engines)

CHEBOTARIN, L.Ye., assistant

Some data on the technology and veterinary and hygienic skills related to the processing of goat meat. Trudy AZVI 10:422-428 '57. (MIRA 12:8)

1. Iz kafedry veterinarno-sanitarnoy ekspertizy i tekhnologii produktov shivotnovodstva Semipalatinskogo zooveterinarnogo instituta (zav.kafedroy - N.D.Titarenko).
(Goats) (Meat inspection)

MERKULOV, V.; CHEBOTAREV, M.

Coordinate the work of various types of transportation. Rech.
transp. 22 no.4:8-10 Ap '63. (MIRA 16:4)

1. Chlen Gosplana RSFSR (for Merkulov). 2. Zamestitel' nachal'-
nika otdela transporta i svyazi Gosplana RSFSR (for Chebotarev).

(Transportation)

CHEBOTAREV, M.

Expansion of inland water transportation during four years of the seven-year plan. Rech. transp. 22 no.7:6-9 JI '63. (MIRA 16:9)

1. Zamestitel' nachal'nik otdela transporta i svyazi Gosplana RSFSR.

(Inland water transportation)

CHERKASOV, L.M., kand.tekhn.nauk; KAKUSHKIN, S.V., inzh.; CHEBOTAREV, M.B.,
inzh.; KIRIYA, G.Sh., inzh

Improving the design of ingot molds and using converter pig iron
for their founding. Stal' 23 no.7:618-621 J1 '63. (MIRA 16:9)

1. Dnepropetrovskiy metallurgicheskii institut i zavod im. Petrovskogo.
(Ingot molds—Design and construction)
(Iron founding)

CHEBOTAREV, M. N.

Increase advantages of river transportation for shippers. Rech.
transp. 15 no.10:22-25 0 '56. (MLRA 10:2)

1. Chlen-kollegii Ministerstva rechnogo flota.
(Inland water transportation--Accounting)

CHEBOTAREV, M.V.

Geological structure of the South Khingan manganese deposit and
the material content of its ores [with summary in English].
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